

International Conference on Management of Spent Fuel from Nuclear Power Reactors: An Integrated Approach to the Back End of the Fuel Cycle



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SAFETY CONSIDERATIONS FOR DUAL PURPOSE CASK

AREVA TN, part of AREVA group, provides total system solutions for used fuel or radioactive waste management, and comprehensive transportation services for the entire nuclear fuel cycle.

Since the '80s AREVA TN has developed an entire set of dual purpose casks, the TN®24 family. This cask family has been designed for the safe transportation and the dry interim storage of the used fuel and the radioactive waste. Key safety issues in both fields are the safe enclosure of the radioactive material, the safe removal of decay heat, securing nuclear criticality safety, limitation of radiation exposure to acceptable levels.

The TN®24 casks have been designed to meet the Type B(U) package requirements of the transport regulations issued by IAEA (International Atomic Energy Agency).

In addition these dual purpose casks have been designed to meet all safety requirements imposed by national regulations as well as the site specific safety analyses.

The purpose of this paper is to present the solutions designed by AREVA for used nuclear fuel and radioactive waste management which are in operation in several Interim Storage Facilities throughout the world. This paper presents these experiences and broaches some considerations related to the Safety Evaluation for transportation and for interim storage as well in normal condition and in hypothetical accident conditions.

Country/ int. organization

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